#### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listing, of claims in the application:

## **Listing of Claims**:

1. (Currently Amended) A method comprising:

receiving by a client device, from a remote server, a plurality of display state definitions defining a plurality of instantiations of a user interface of an application for a plurality of display states of the user interface, with-wherein (1) at least one of the plurality of instantiations of the user interface corresponding corresponds to a multidimensional display state, the at least one instantiation defined by two or more of the plurality of display state definitions, and (2) at least one of the plurality of display state definitions includes a plurality of display cell definitions correspondingly defining a plurality of display cells of a corresponding one of the plurality of instantiations of the user interface;

determining locally by the client device, a current display state of the user interface; and provisioning by the client device, a current instantiation of said user interface in accordance with one or more of the display state definitions associated with the determined current display state.

- 2. (Cancelled)
- 3. (Previously Presented) The method of claim 45, wherein said provisioning comprises generating by said client device a first display cell of the current instantiation of the user interface in accordance with a first of said one or more display cell definitions of one of said one or more display state definitions associated with said current display state.

- 4. (Previously Presented) The method of claim 3, wherein said provisioning further comprises generating by said client device a second display cell of the current instantiation of the user interface in accordance with a second of said one or more display cell definitions of the same or another of said one or more display state definitions associated with said current display state.
- 5. (Previously Presented) The method of claim 1, wherein said provisioning comprises generating by said client device a portion of the current instantiation of the user interface with constituting contents inherited from a pseudo instantiation of the user interface.
- 6. (Previously Presented) The method of claim 1, wherein said current display state is multidimensional.
- 7. (Cancelled)
- 8. (Cancelled)
- 9. (Cancelled)
- 10. (Currently Amended) A method comprising:

provisioning locally by a client device a first instantiation of a user interface of an application for a current display state of the user interface in accordance with at least a first one of a plurality of display state definitions defining a plurality of instantiations of the user interface, including the first instantiation, for a plurality of display states of the user interface, including said current display state, with at least one of the plurality of instantiations of the user interface corresponding to a multidimensional display state, the at least one instantiation defined by two or more of the plurality of display state definitions, with the at least first one of the

plurality of display state definitions including one or more a plurality of display cell definitions correspondingly defining one or more a plurality of display cells of the first instantiation of the user interface, with at least one of the one or more plurality of display cell definitions having a transition rule defining a next display state to transition to, when the content of the display cell is interacted with by a user;

determining locally by said client device the display state of the user interface to be said next display state based on a user's interaction with the content of the display cell of the first instantiation of the user interface, and in accordance with said corresponding display cell definition of the display cell; and

provisioning by the client device the next instantiation of the user interface corresponding to the determined next display state of the user interface, in accordance with at least a second one of the plurality of display state definitions defining at least partially the next instantiation of the user interface.

### 11. (Currently Amended) A method comprising:

transmitting by a server to a remote client device, a plurality of display state definitions defining a plurality of instantiations of a user interface of an application for a plurality of display states of the user interface, with wherein (1) at least one of the plurality of instantiations of the user interface corresponding corresponds to a multidimensional display state, the at least one instantiation defined by two or more of the plurality of display state definitions, and (2) at least one of the plurality of display state definitions includes one or morea plurality of display cell definitions specifying constituting contents for one or morea plurality of corresponding display cells of at least one of the plurality of instantiations of the user interface; and

transmitting by the server to said remote client device, said constituting contents for said one or more plurality of display cells for rendering an instantiation of the plurality of

instantiations of said user interface on said remote client device in accordance with said <del>one or more-</del>plurality of display cell definitions.

- 12. (Previously Presented) The method of claim 11, wherein the constituting contents are constituting contents of a pseudo instantiation of the user interface to be inherited during said rendering.
- 13. (Cancelled)
- 14. (Cancelled)
- 15. (Currently Amended) An article of manufacture comprising:
  - a storage medium; and
- a plurality of programming instructions stored in the storage medium and configured to implement a user interface provision function equipped to receive from a remote server a plurality of display state definitions defining a plurality of instantiations of a user interface of an application for a plurality of display states of the user interface, with wherein (1) at least one of the plurality of instantiations of the user interface corresponding corresponds to a multidimensional display state, the at least one instantiation defined by two or more of the plurality of display state definitions, and (2) at least one of the plurality of display state definitions includes a plurality of display cell definitions correspondingly defining a plurality of display cells of a corresponding one of the plurality of instantiations of the user interface, to determine a current display state of the user interface, and to provision a current instantiation of said user interface in accordance with one or more of the display state definitions associated with the determined current display state.

#### 16. (Cancelled)

17.	(Cancelled)
18.	(Cancelled)
instant	(Previously Presented) The article of claim 15, wherein said programming instructions said user interface provision function to perform said provisioning of the current iation of the user interface, by generating a portion of the current instantiation of the user ce with constituting contents inherited from a pseudo instantiation of the user interface.
20. dimens	(Previously Presented) The article of claim 15, wherein said current display state is multi sional.
21. functio	(Previously Presented) The article of claim 15, wherein the user interface provision on is a part of a selected one of a browser and an operating system.
22.	(Cancelled)
23.	(Cancelled)
24.	(Cancelled)
25.	(Currently Amended) An article of manufacture comprising: a storage medium; and a plurality of programming instructions stored in the storage medium and configured to
implement a user interface provision function equipped to	

provision a first instantiation of a user interface of an application for a current display state of the user interface in accordance with at least a first one of a plurality of display state definitions defining a plurality of instantiations of the user interface, including the first instantiation, for a plurality of display states of the user interface, including said current display state, with at least one of the plurality of instantiations of the user interface corresponding to a multidimensional display state, the at least one instantiation defined by two or more of the plurality of display state definitions of the user interface, with the at least first one of the plurality of display state definitions including one or morea plurality of display cell definitions correspondingly defining one or more a plurality of display cell definition of the user interface, with at least one of the one or moreplurality of display cell definitions having a transition rule defining a next display state to transition to, when the content of the display cell is interacted with by a user;

determining the display state of the user interface to be said next display state based on a user's interaction with the content of the display cell of the first instantiation of the user interface, and in accordance with said corresponding display cell definition of the display cell; and

provisioning the next instantiation of the user interface corresponding to the determined next display state of the user interface, in accordance with at least a second one of the plurality of display state definitions defining at least partially the next instantiation of the user interface.

# 26. (Currently Amended) An application server comprising:

a processor; and

a plurality of programming instructions executed by the processor to implement a user interface provision function equipped to transmit to a remote client device,

- a plurality of display state definitions defining a plurality of instantiations of a user interface of an application for a plurality of display states of the user interface, with-wherein (1) at least one of the plurality of instantiations of the user interface corresponding corresponds to a multidimensional display state, the at least one instantiation defined by two or more of the plurality of display state definitions, and (2) at least one of the plurality of display state definitions includes one or morea plurality of display cell definitions specifying constituting contents for a plurality of one or more corresponding display cells of at least one of the plurality of instantiations of the user interface; and
  - said constituting contents for said <u>plurality of one or more</u> display cells for rendering an instantiation of the plurality of instantiations of said user interface on said remote client device in accordance with said <u>plurality of one or more</u> display cell definitions.
- 27. (Previously Presented) The application server of claim 26, wherein the constituting contents are constituting contents of a pseudo instantiation of the user interface to be inherited during said rendering.
- 28. (Cancelled)
- 29. (Cancelled)
- 30. (Currently Amended) A client device comprising:
- a storage medium having stored therein a plurality of programming instructions to implement a user interface provision function equipped to receive from a remote server a plurality of display state definitions defining a plurality of instantiations of a user interface of an application for a plurality of display states of the user interface, with wherein (1) at least one of

the plurality of instantiations of the user interface eorresponding corresponds to a multidimensional display state, the at least one instantiation defined by two or more of the plurality of display state definitions, and (2) at least one of the plurality of display state definitions includes a plurality of display cell definitions correspondingly defining a plurality of display cells of a corresponding one of the plurality of instantiations of the user interface, to determine a current display state of the user interface, and to provision a current instantiation of said user interface in accordance with one or more of the display state definitions associated with the determined current display state; and

a processor coupled to the storage medium to execute the programming instructions.

- 31. (Cancelled)
- 32. (Cancelled)
- 33. (Cancelled)
- 34. (Previously Presented) The client device of claim 30, wherein said programming instructions equip said user interface provision function to perform said provisioning of the current instantiation of the user interface, by generating a portion of the current instantiation of the user interface with constituting contents inherited from a pseudo instantiation of the user interface.
- 35. (Previously Presented) The client device of claim 30, wherein said current display state is multi-dimensional.

- 36. (Previously Presented) The client device of claim 30, wherein the client device is a device selected from a group consisting of a wireless telephone, a palm sized computing device, and a notebook sized computing device.
- 37. (Cancelled)
- 38. (Cancelled)
- 39. (Cancelled)
- 40. (Currently Amended) A client device comprising:

a storage medium having stored therein a plurality of programming instructions to implement a user interface provision function equipped to

provision a first instantiation of a user interface of an application for a current display state of the user interface in accordance with at least a first one of a plurality of display state definitions defining a plurality of instantiations of the user interface, including the first instantiation, for a plurality of display states of the user interface, including said current display state, with at least one of the plurality of instantiations of the user interface corresponding to a multidimensional display state, the at least one instantiation defined by two or more of the plurality of display state definitions of the user interface, with the at least first one of the plurality of display state definitions including one or morea plurality of display cell definitions correspondingly defining one or morea plurality of display cell definitions having a transition rule defining a next display state to transition to, when the content of the display cell is interacted with by a user,

determining the display state of the user interface to be said next display state based on a user's interaction with the content of the display cell of the first instantiation of the user interface, and in accordance with said corresponding display cell definition of the display cell, and

provisioning the next instantiation of the user interface corresponding to the determined next display state of the user interface, in accordance with at least a second one of the plurality of display state definitions defining at least partially the next instantiation of the user interface; and

a processor coupled to the storage medium to execute the programming instructions.

## 41. (Currently Amended) A server comprising:

a storage medium having stored therein a plurality of programming instructions to implement a user interface provision function equipped to transmit to a remote client device,

a plurality of display state definitions defining a plurality of instantiations of a user interface of an application for a plurality of display states of the user interface, with wherein (1) at least one of the plurality of instantiations of the user interface corresponding corresponds to a multidimensional display state, the at least one instantiation defined by two or more of the plurality of display state definitions, and (2) at least one of the plurality of display state definitions includes one or morea plurality of display cell definitions specifying constituting contents for one or morea plurality of corresponding display cells of at least one of the plurality of instantiations of the user interface, and

said constituting contents for said one or more plurality of display cells for rendering an instantiation of the plurality of instantiations of said user interface on said remote client device in accordance with said one or more plurality of display cell definitions; and

at least one processor coupled to the storage medium to execute the programming instructions.

- 42. (Previously Presented) The server of claim 41, wherein the constituting contents are constituting contents of a pseudo instantiation of the user interface to be inherited during said rendering.
- 43. (Cancelled)
- 44. (Cancelled)
- 45. (Previously Presented) The method of claim 1, wherein each display state definition has one ore more display cell definitions correspondingly defining one or more display cells of a corresponding instantiation of the user interface, and said determining is locally made by said client device in accordance with a second display cell definition of a second of the display state definitions of the user interface for a second rendered display cell of an immediately preceding instantiation of the user interface for corresponding to an immediately preceding display state of an immediately preceding instantiation of the user interface, with which corresponding display cell a user interacted, said second display cell definition including a state transition rule specifying the current display state as the display state of the user interface in the event a user interacts with the corresponding second rendered display cell.
- 46. (Currently Amended) The method of claim 11, wherein at least one of the one or more plurality of display cell definitions comprises a display state transition rule correspondingly specifying a display state of the user interface to be transitioned to in the event of various user interactions with the corresponding at least one of the one or more plurality of display cells.

- 47. (Previously Presented) The article of claim 15, wherein each of said plurality of display state definitions has one or more display cell definitions correspondingly defining one or more display cells of a corresponding instantiation of the user interface, and said programming instructions further equip said user interface provision function to make said determination in accordance with a second display cell definition of a second of the display state definitions of the user interface for a second rendered display cell of an immediately preceding instantiation of the user interface for corresponding to an immediately preceding display state of an immediately preceding instantiation of the user interface, with which corresponding display cell a user interacted, said second display cell definition including a state transition rule specifying the current display state as the display state of the user interface in the event a user interacts with the corresponding second rendered display cell.
- 48. (Previously Presented) The article of claim 47, wherein said programming instructions further equip said user interface provision function to perform said provisioning of the current instantiation of the user interface, by generating a first display cell of the current instantiation of the user interface in accordance with a first of said one or more display cell definitions of one of said one or more display state definitions associated with said current display state.
- 49. (Previously Presented) The article of claim 48, wherein said programming instructions further equip said user interface provision function to perform said provisioning of the current instantiation of the user interface, by generating a second display cell of the current instantiation of the user interface in accordance with a second of said one or more display cell definitions of the same or another of said one or more display state definitions associated with said current display state.
- 50. (Currently Amended) The application server of claim 26, wherein at least one of the one or more plurality of display cell definitions comprises a display state transition rule

correspondingly specifying a display state of the user interface to be transitioned to in the event of various user interactions with the corresponding at least one of the one or more plurality of display cells.

- (Previously Presented) The client device of claim 30, wherein each of said plurality of display state definitions has one or more display cell definitions correspondingly defining one or more display cells of a corresponding instantiation of the user interface, and said programming instructions further equip said user interface provision function to make said determination in accordance with a second display cell definition of a second of the display state definitions of the user interface for a second rendered display cell of an immediately preceding instantiation of the user interface for corresponding to an immediately preceding display state of an immediately preceding instantiation of the user interface, with which corresponding display cell a user interacted, said second display cell definition including a state transition rule specifying the current display state as the display state of the user interface in the event a user interacts with the corresponding second rendered display cell.
- 52. (Previously Presented) The client device of claim 51, wherein said programming instructions further equip said user interface provision function to perform said provisioning of the current instantiation of the user interface, by generating a first display cell of the current instantiation of the user interface in accordance with a first of said one or more display cell definitions of one of said one or more display state definitions associated with said current display state.
- 53. (Previously Presented) The client device of claim 52, wherein said programming instructions further equip said user interface provision function to perform said provisioning of the current instantiation of the user interface, by generating a second display cell of the current instantiation of the user interface in accordance with a second of said one or more display cell

definitions of the same or another of said one or more display state definitions associated with said current display state.

54. (Currently Amended) The server of claim 41, wherein at least one of the one or more plurality of display cell definitions comprises a display state transition rule correspondingly specifying a display state of the user interface to be transitioned to in the event of various user interactions with the corresponding at least one of the one or more plurality of display cells.